

COMMITTEE HEARING
BEFORE THE
CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

In the Matter of:)
) Docket Nos.
Informational Proceeding and) 03-IEP-01
Preparation of the 2004 Integrated) 02-REN-1038
Energy Policy Report Update) 03-RPS-1078
) 04-DIST-GEN-1
(2004 Energy Report Update))
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COMMISSIONERS PRESENT

John Geesman, Presiding Member

James Boyd, Associate Member

ADVISORS PRESENT

Michael Smith

Scott Tomashefsky

Chris Tooker

Tim Tutt

STAFF PRESENT

Kevin Kennedy, Program Manager

Sandra Fromm, Assistant Program Manager

ALSO PRESENT

Mark Grossi, Staff Writer

The Fresno Bee

Erin Waldner

I N D E X

	Page
Proceedings	1
Introductions	1,5
Opening Remarks	1
Presiding Member Geesman	1
Associate Member Boyd	2
CEC Staff Report	4
Sandra Fromm, Assistant Program Manager	4
Questions/Comments	11
Public Comment	12
Mark Grossi, Staff Writer The Fresno Bee	12
Erin Waldner	31
Closing Remarks	33
Presiding Member Geesman	33
Adjournment	33
Certificate of Reporter	34

P R O C E E D I N G S

9:29 a.m.

PRESIDING MEMBER GEESMAN: This is the meeting of the California Energy Commission's Integrated Energy Policy Report Committee, designed to update our 2003 Integrated Energy Policy Report with a 2004 supplement. The 2003 report identified three issues in need of greater scrutiny in 2004.

Those were the role that aging power plants play in meeting our electricity requirements. Ways in which to improve the planning for transmission upgrades. And methods by which we can accelerate the development of renewable energy sources.

This is our 19th public hearing in that process. We will publish a revised draft on October 20th and present the full report in draft form to the Commission on November 3rd.

It's our understanding that if the Commission adopts the report November 3rd, that the Governor is likely to provide a response that the statute calls for in late November or early December. Thereafter, the report and its recommendations will be transmitted to the

1 Legislature.

2 Commissioner Boyd, did you have anything
3 to add?

4 COMMISSIONER BOYD: Well, I'd just say
5 it's a pleasure to be here in Fresno at this
6 hearing. In my 15 years as a State Air Director I
7 did many hearings here in Fresno, usually the
8 audiences were larger. That issue seemed to
9 generate more interest.

10 But this is a very serious issue for the
11 State of California, following upon its
12 electricity crisis. And the Legislature, in its
13 wisdom, I feel, after the fall of the electricity
14 sky in California, passed legislation requiring
15 the Energy Commission to prepare an Integrated
16 Energy Policy Report.

17 And it's more than electricity. It's
18 all three legs of the energy stool. It's
19 electricity, natural gas and transportation fuel,
20 all of which are shaky legs of our energy stool in
21 California. And as Commissioner Geesman and I and
22 the staff know, the economy rests itself on that
23 stool oftentimes.

24 So this is a fairly critical topic.
25 Last year's report, the first, identified a whole

1 menu of issues, with the three that Commissioner
2 Geesman mentioned as the ones for followup this
3 year before we do the complete review in year
4 2005.

5 The law provided that every other year
6 there be a total review of the issues; and in the
7 intervening years the Commission was at liberty to
8 address specific subjects that it had identified.

9 Commissioner Geesman and I are the
10 Commissioners who will also do the 2005 report.
11 And so this is good background for us, and good
12 lessons in public outreach for us in conducting
13 those hearings, when we start that process.
14 Actually, we have started that process, but we're
15 not to the public hearing stage just yet.

16 We look forward to public input on the
17 subject from the interested publics who find this
18 an issue of concern to them. So, with that, I
19 guess we will, at the end of this hearing,
20 conclude our stint on the road of public hearings
21 and public workshops for the 2004 update, as
22 Commissioner Geesman indicated.

23 And look forward to presenting the
24 report to the full Commission, and then to the
25 public at large, and the policymakers in

1 California, the Governor and the Legislature.

2 I would say, for this limited audience,
3 that Commissioner Geesman and I have been quite
4 pleased by the reception that this general subject
5 has gotten here to date, and the fact that we hear
6 from policymakers in Sacramento and those affected
7 throughout the state, that this Administration
8 will look upon the 2004 IEPR report, as we choose
9 it, from this Commission in concert with the 2003
10 report, which has not been fully aired by many
11 policymakers in light of the changes in the
12 California government last fall. Things got
13 changed a little bit.

14 And it will be a very significant, if
15 not the agenda, for energy policy issues in
16 California to be addressed by this Administration,
17 and perhaps the Legislature in 2005 and beyond.
18 So this report becomes that much more significant;
19 and the 2005 report, therefore, becomes extremely
20 significant with regard to our energy future.

21 So, with that, thank you.

22 PRESIDING MEMBER GEESMAN: Sandra, would
23 you like to give the staff report?

24 MS. FROMM: Good morning. I'm Sandra
25 Fromm, the Program Manager for the 2004 Energy

1 Report process. Thank you for coming here today.

2 I'd like to also introduce some of the
3 Advisors that weren't introduced earlier. Chris
4 Tooker is out in the audience. Tim Tutt is out in
5 the audience. Mike Smith and Scott Tomashefsky.
6 And the Program Manager is Kevin Kennedy, sitting
7 back there in the blue.

8 COMMISSIONER BOYD: Hiding back here.
9 You can be proud of your report, Kevin.

10 MS. FROMM: We'd like any written
11 comments you might have on the report by October
12 13th. And the purpose of today's meeting is
13 really to get public comment on the 2004 document.
14 So, that's basically why we're here.

15 I think Commissioner Geesman gave a
16 little background on this. The process for the
17 2004 report was very public. We worked with state
18 agencies; we had numerous meetings with
19 stakeholders. As Commissioner Geesman indicated
20 earlier, we had 19 public workshops and hearings.
21 Over 200 public comments were docketed. And the
22 three staff reports were prepared based on the
23 public record. And then the Committee prepared
24 its report based on the public record and the
25 staff reports.

1 With that I'm going to quickly review
2 the -- is this the mike for -- okay, sorry. I'll
3 just talk louder.

4 With that, I'll go over --

5 COMMISSIONER BOYD: If you can't hear
6 Sandra, just move up. There's plenty of room.

7 (Laughter.)

8 MS. FROMM: I'll quickly go through the
9 recommendations made in the Committee's draft
10 report.

11 In looking at near-term supply and
12 reliability concerns the 2003 Energy Report
13 concluded that under average weather conditions
14 California would have adequate energy supplies
15 through 2009. But if adverse weather occurs,
16 reserve margins, starting in 2006 and beyond,
17 could fall below the 7 percent threshold needed to
18 maintain system reliability.

19 The 2004 aging retirement power plant
20 study noted that as many as 9000 megawatts of
21 power plants are at risk of retiring by 2008. If
22 many of these retire between now and 2008 we could
23 potentially fall below the 7 percent threshold
24 needed to maintain reliability.

25 To address the near-term supply issues

1 and reliability concerns the Committee recommends
2 that all investor-owned utilities and municipal
3 utilities work aggressively to attain the 2007
4 statewide goal of 5 percent peak demand reduction
5 through demand response programs.

6 The Committee laid out a number of
7 specific suggestions in the report, such as
8 modification of the tariff design, immediate
9 rollout of advanced metering systems, and
10 development of dynamic rate offerings.

11 The Committee further recommends that
12 the Energy Commission work with the PUC to develop
13 a capacity market that includes a capacity tagging
14 mechanism and tradeable capacity rights.

15 The Committee also recommends that the
16 Energy Commission and the PUC and all the
17 utilities enhance supply management by
18 establishing more closely coordinated planning and
19 reserve sharing, pursuing cost effective seasonal
20 exchanges with the Pacific Northwest, and
21 exploring opportunities to use existing pump
22 storage facilities more fully.

23 Although the Committee proposes these
24 short-term solutions, they recognize that these
25 solutions should not interfere with the long-term

1 goals of our electricity system.

2 Transmission upgrades and expansions are
3 critical to insuring a reliable electricity
4 delivery system, however these expansions
5 typically have long lead times and should be
6 considered during the planning process.

7 SB-1565, recently signed into law,
8 requires that the Energy Commission adopt a
9 strategic plan for the state's transmission grid.

10 The Committee recommends that the Energy
11 Commission establish a comprehensive, statewide
12 planning process with the Public Utilities
13 Commission, Cal-ISO, other key state and federal
14 agencies, stakeholders and any interested public.

15 The transmission system, planning system
16 must recognize the long and useful life of
17 transmission assets, their public goods nature,
18 identify transmission corridors and consider
19 access to the state's renewable resources.

20 The Committee further recommends that
21 the Energy Commission increase its participation
22 in the joint transmission study group on the
23 Tehachapi wind resources area; work with the PUC
24 to establish a joint study group for Imperial
25 County's geothermal resources, and work with the

1 PUC and ISO to investigate whether changes are
2 needed to the Cal-ISO tariff to meet transmission
3 needs for renewables.

4 While the Governor supports a 33 percent
5 by 2020 goal for all utilities, he vetoed SB-1478
6 due to provisions that it will impede progress on
7 renewables. The Committee recommends that the
8 state enact legislation to require all suppliers
9 of electricity, including large, publicly owned
10 electric utilities, to meet a 33 percent eligible
11 renewable by 2020.

12 Additionally, they have a specific
13 utility target for Southern California Edison to
14 purchase at least 1 percent of additional
15 renewable energy by the year -- between the year,
16 excuse me, 2006 and 2020.

17 The Committee also recommends the
18 repowering of wind turbines to harness wind
19 resources efficiently and prevent bird deaths.
20 Since the draft document was released, the federal
21 tax production credit was extended by Congress to
22 2005. Although it hasn't been signed yet, the
23 American Wind Energy Association has indicated
24 that President Bush is likely to sign it. Passage
25 of this bill will help stalled wind projects come

1 online.

2 The Committee further recommends that
3 the PUC require investor-owned utilities to
4 facilitate repowerings in its pending effort to
5 develop QF contracts.

6 Although the Energy Commission will
7 launch a performance-based PV incentive pilot
8 program in 2005, the Committee makes this an
9 official recommendation to reinforce this program.

10 Lastly, the Committee recommends that
11 the Energy Commission continue to assist the
12 Governor's solar initiative to achieve a greater
13 market penetration of PV systems.

14 As Commissioner Geesman indicated
15 earlier, this is the final hearing in a series of
16 hearings around the state on the 2004 Energy
17 Report update. The Committee will publish its
18 final draft document on October 20th. And the
19 full Commission will hear the item at the November
20 3rd business meeting.

21 I'd like to just remind you that we
22 appreciate receiving any written comments by
23 October 13th.

24 With that, I'll turn the hearing back
25 over to the Committee.

1 PRESIDING MEMBER GEESMAN: Thank you,
2 Sandra. Do we have any public comment or any
3 questions from anyone in the audience?

4 COMMISSIONER BOYD: You folks are
5 questioners.

6 PRESIDING MEMBER GEESMAN: Mr. Tooker.

7 (Laughter.)

8 DR. TOOKER: I think it would be
9 interesting for those here to know what the
10 difference is between what we currently do in our
11 incentive program for solar or renewables and the
12 performance-based approach. What do we do now and
13 how is (inaudible).

14 PRESIDING MEMBER GEESMAN: Well, the
15 current program is focused on buying down the
16 front-end capital costs of eligible systems. And
17 almost all of the systems that have been installed
18 to date have been photovoltaic systems. Small
19 wind does qualify, but most of the installations
20 have been solar.

21 A performance-based system, rather than
22 focused on the front-end costs, would subsidize
23 the output from the solar systems on a metered
24 basis. So that the incentive would be to, in
25 effect, purchase each kilowatt hour from the solar

1 system.

2 The belief is that the systems would be
3 both better designed, more effectively installed
4 and better maintained over the long term in that
5 fashion.

6 We propose a pilot program that would go
7 into effect in January to determine if those
8 assumptions are accurate or not.

9 Sir.

10 MR. GROSSI: Can I ask you about the
11 idea of generating electricity from (inaudible)?

12 PRESIDING MEMBER GEESMAN: Commissioner
13 Boyd.

14 COMMISSIONER BOYD: That's a very viable
15 technologically, and heretofore a little bit out
16 on the outer edges of positive economics. But
17 it's something I personally, and I think we at the
18 Commission are extremely interested in.

19 And I think the economics are turning
20 around somewhat. And quite frankly when we, as a
21 society, get a little bit better at valuing
22 societal goods or being able to take into account
23 some of the external costs or externalities, as
24 the term is often -- like the air quality benefits
25 that you derive from that, as well as other forms

1 of waste beyond just digesters say in dairies or
2 hog farms or what-have-you, when you start taking
3 into account, you know, the avoided costs with
4 respect to other environmental damages, I think
5 we're going to see more and more attention given
6 to using our waste as a way of deriving energy.

7 And it's not just electricity. I mean,
8 yes, you can derive biogas that you can use to
9 generate electricity. Yes, you can derive biogas
10 which is, admittedly, slightly poor form of
11 methane. But you can upgrade it; you can put it
12 into your backbone natural gas system is you
13 wanted to. Or you can use it as a transportation
14 fuel even if it's in just specific areas rather
15 than universally.

16 I had the pleasure earlier this year of
17 being a guest of some folks in Sweden and looking
18 at their very expensive digester applications
19 where they derive -- they use food waste, all
20 organic waste that they can get their hands on, as
21 well as even municipal waste, to some degree, and
22 agricultural waste from particularly hog farms.
23 And create biogas which is upgraded; stripped of
24 CO₂, et cetera, et cetera, and inject it into a
25 pipeline system that feeds an apparently extensive

1 system to fuel motor vehicles only. It's not even
2 put into their system for heating homes or
3 industrial uses.

4 So there's lots of potential. And I
5 think California is at a very significant
6 crossroad where this is very meaningful.

7 And I mentioned earlier that indeed for
8 15 years I was the State Air Director, and I know
9 the San Joaquin Valley and its air quality issues.
10 And I know for years many of us dreamed about
11 crossing that bridge into using a lot of this
12 waste for practical problems.

13 And as we struggle more with the
14 concerns about the greater and greater demand on
15 natural gas, as we also struggle with what to do
16 with waste, I mean -- and as we, as a state, have
17 become very sensitized finally to climate change
18 and the ramifications of lots of our activities on
19 climate change, I think the utilization of waste,
20 and the fact that some of those, quote "wastes"
21 are really renewable materials that can be used to
22 provide energy in many forms, I think is very
23 significant.

24 I think we've just scratched the surface
25 in our 2003 major report. I anticipate a lot more

1 discussion of that subject in our 2005 major
2 update.

3 But it's -- unfortunately so many of the
4 good things to do are hinged on the pure
5 economics, and they lose out.

6 Now, the state has made policy
7 decisions, as you derived from the previous
8 question, about renewables, and the state has made
9 policy decisions to make investments of state
10 moneys in renewable programs and what-have-you to
11 provide initial incentives to, you know, to get
12 some of these technologies through the valley of
13 death, as it's called, et cetera, et cetera, and
14 up and going. And I think more and more that will
15 occur in areas of waste, or biomass, as I call it,
16 in the future.

17 So, thanks for asking the question. It
18 allows me to pontificate on the subject.

19 MR. GROSSI: -- particularly in this
20 (inaudible) that, I don't know, 380 sunshine --
21 talking about solar, talking about the kind of
22 waste generation, you're talking about the
23 biomass, the farming industry alone has thousand
24 and thousands of tons of crop waste.

25 It just seems to many of us here that

1 it's (inaudible) especially (inaudible) to turn
2 those negatives into a positive. And, you know, I
3 think that would be my question, as a taxpayer, is
4 that being addressed in the reports that you talk
5 about in Sacramento? I would (inaudible).

6 PRESIDING MEMBER GEESMAN: Our challenge
7 is to bring the pace of policy development up to
8 parity with the pace of technological development.
9 The technology for many of these renewables
10 sources has moved quite a bit faster than the
11 state's ability to come up with policies to both
12 promote the technologies and to remove
13 institutional barriers that impede further
14 progress.

15 The biomass area is probably one of the
16 more interesting ones because the challenge there
17 is creating revenue streams that can overcome the
18 economics of the technology. We're not allowed to
19 say let's raise taxes; that's politically
20 verboten. So that option is off the table.

21 We do, from time to time, as a state,
22 engage in tax incentives directed at things that
23 we want to favor or to bring forward. We
24 currently operate a fairly limited incentive or
25 subsidy program funded entirely by the electricity

1 ratepayers.

2 As Commissioner Boyd said, we haven't
3 been able to properly monetize the waste disposal
4 value or the air quality benefit that might be
5 achieved by pursuing some of these technologies a
6 little more aggressively.

7 So the burden on us and on our ability
8 to persuade both the Governor and the Legislature,
9 is to bring the pace of the policy development
10 into a little bit better match with how rapidly
11 some of the technologies have actually been
12 approved.

13 COMMISSIONER BOYD: And since you asked,
14 let me just point out that the Energy Commission
15 has been interested in this subject for quite some
16 time; has invested some of its research dollars in
17 this arena.

18 And as a result of a couple of year s of
19 intense discussions within state government of the
20 subject, about a year ago the Energy Commission
21 provided the seed money to create the so-called
22 Biomass Collaborative, which is housed at the
23 University of California at Davis. Which was an
24 attempt to continue to broaden, expand interest in
25 the subject and work on the subject.

1 The other thing that has been done by
2 the Commission with some of the research dollars
3 it has, it is participating in the Inland Empire,
4 as it's called, down in southern California, in a
5 project that does involve using dairy waste and
6 sewage sludge in a digester application to start
7 creating digester gas, that at the present is
8 intended to be totally consumed inside the system
9 that is treating all this.

10 But that's, you know, that's R&D; that's
11 research that will therefore be exportable to the
12 Valley here. They had the impetus down there of
13 not only being in the area of the worst air
14 quality, but having extremely significant
15 groundwater problems and dairies contributing, as
16 they are here, to problems.

17 So they had to clean up groundwater
18 issues; they had to address a lot of this. And it
19 allowed, you know, a real systems look at the
20 issue in a very synergistic approach, let's say,
21 to solving the problem.

22 And we're hopeful that we can export
23 that experience to other parts of the state,
24 principally this particular area. So that's
25 underway right now and bodes well for the future,

1 I think.

2 And based on what I've seen there, and
3 in other parts of the world, it's do-able. You
4 just have to make a commitment there, too.

5 PRESIDING MEMBER GEESMAN: Yeah, I would
6 say in terms of bringing some of these
7 technologies into the commercial mainstream that
8 that is likely to prove the most successful in
9 geographic areas where there's a proximity to fuel
10 source and there's a proximity to adverse
11 environmental impacts. That's where you're likely
12 to have the combination of both benefits and
13 political willpower, if you will, to solve some of
14 these commercialization hurdles that need to be
15 overcome.

16 And I think quite obviously much of that
17 is likely to take place right here in this Valley.

18 COMMISSIONER BOYD: I think Commissioner
19 Geesman and I intend, in the 2005 process, to see
20 that the subject of climate change is discussed
21 more. The Commission has created a climate change
22 advisory Committee now, which just happened, met
23 yesterday for the second time.

24 And when you hook that subject into a
25 lot of the others we've talked about, and I'm

1 going to go back to Sweden again and just say when
2 you have a government that says we're interested
3 in climate change, we have problems with our
4 landfills, as does California, and we're going to
5 forbid organic waste going to our landfills at all
6 in the next couple of years. And we have a water
7 quality problem associated with our farm and dairy
8 and hog farms, et cetera.

9 You put all that together into policy
10 considerations it does provide a forcing function
11 for them to come up with innovative solutions to
12 some of those problems.

13 California, we still direct incredible
14 amounts of cellulosic, i.e., wood waste, as well
15 as, of course, almost all organic waste, to
16 landfills. And we have a landfill problem.

17 As we begin to couple some of these
18 things together, and if we have to do it under the
19 umbrella of the energy issue facing the state, and
20 now the people discovered that energy, in all its
21 forms, is so incredibly important to, you know, to
22 fuel the engine that drives the economy, I think
23 we can get more and more of these issues discussed
24 as being associated with energy.

25 And as Commissioner Geesman properly

1 pointed out, start generating some of the sources
2 of funding to move money from column A to column
3 B, so to speak, to invest in these things.

4 Right now, you know, they have a
5 societal benefit, but nobody -- people even to
6 hook values on them, but there's no cash sitting
7 there to invest. Well, as you look at them as
8 opportunity costs or, you know, avoided costs, you
9 know, we're burning up the state with forest fires
10 and wildfires, there's a lot of material there you
11 could use, et cetera, et cetera.

12 The farm materials that should not be
13 burned in the fields anymore are -- there's a lot
14 of opportunities. I think in your lifetime you're
15 going to see a lot happening in this Valley to
16 address that.

17 I guess the other thing is to breathe
18 new life into the agricultural community to avoid
19 the only thing to grow in the Valley being houses,
20 we're going to have to address some of this.

21 PRESIDING MEMBER GEESMAN: Yeah, I would
22 suggest that where you'll see some actual momentum
23 develop is when people begin to perceive serious
24 business opportunities in recognizing the energy
25 value. Many of the things we consider waste

1 today, and for that matter, when energy crops
2 become a more viable technological phenomenon.

3 What we're most in need of is turning
4 some of these experimental R&D projects into
5 actual profit-making commercial ventures. That's
6 something that government can serve a spark
7 function. But the tinder for that, the fanning of
8 those flames generally is conducted by the private
9 sector.

10 COMMISSIONER BOYD: Getting back to, and
11 closing the loop on your question a little bit
12 more, another observation I've had, particularly
13 as a result of all the years in the air quality
14 business, is, you know, agriculture used to be
15 California's number one business. A very powerful
16 industry, very self sufficient. And a lot of good
17 people, I know a lot of people in the Fresno area
18 involved in that are the heads of associations and
19 what-have-you.

20 But, admittedly the ability to create
21 partnerships between government and that community
22 has been difficult because if there were any
23 frontier industries left, to me it was kind of
24 like the agriculture industry. Very reluctant to
25 get too close to government for fear of a negative

1 impact.

2 I think it took ten years of my 15 years
3 in the air quality business to build a very good
4 relationship -- to finally build a working
5 relationship with the agricultural community. And
6 to not make a joke out of the fact that we're from
7 government, we're here to help. But to make that
8 somewhat sincere and create some working
9 partnerships.

10 And I think I've observed in the last
11 five years a major change in the attitude of the
12 agriculture industry towards working with
13 government on solutions to some of the problems.
14 And probably maybe government can actually -- and
15 even the environmental community partnerships have
16 formed up -- to maybe hold off building houses on
17 every single decent piece of ag land, et cetera,
18 et cetera.

19 And I think there are a lot more
20 activities underway in cooperation between the
21 industry and governments and academia to address a
22 lot of the social, societal and environmental
23 issues that are faced or affecting that industry,
24 that you'll see more interest in doing some of
25 these innovative things that will actually benefit

1 agriculture.

2 As well as Commissioner Geesman has
3 pointed out, provide new business opportunities
4 for some of the, you know, what was waste, is
5 becoming more and more yet another product or
6 commodity that can be used to generate something
7 in the economy, and perhaps even create a revenue
8 stream that's positive.

9 So, hopefully it'll all get done fast
10 enough to maintain agriculture as an extremely
11 viable industry in the state.

12 So thanks for the question. As you see,
13 it stimulated a lot of --

14 MR. GROSSI: There was one more thing, I
15 don't know whether my colleague wanted to know
16 this, but --

17 THE REPORTER: Excuse me, do you want to
18 come forward with your questions here, since we're
19 on the record.

20 UNIDENTIFIED SPEAKER: And James doesn't
21 often say that, so --

22 (Laughter.)

23 MR. GROSSI: In the presentation there
24 was one spot that sort of hit me, and it was right
25 in the beginning. 2009, we're okay till then, and

1 maybe --

2 UNIDENTIFIED SPEAKER: -- in the
3 first --

4 MR. GROSSI: Probably the very first
5 one.

6 UNIDENTIFIED SPEAKER: Yeah.

7 MR. GROSSI: Probably we're okay unless
8 we have adverse weather. And the advisory for
9 this meeting said that we're talking about
10 possibly by 2005 being into another energy crisis
11 like we were in 2001. And the people around here
12 want to know that. And that's the first thing my
13 editor is going to ask me when I go back.

14 Under what circumstance would we walk
15 into a problem like that?

16 COMMISSIONER BOYD: We had to say
17 something to get you here to this hearing.

18 (Laughter.)

19 PRESIDING MEMBER GEESMAN: As you and I
20 were discussing before the meeting, we see this
21 problem in front of us, and the report goes into
22 this in some detail, as principally a southern
23 California-centered problem. And when I say
24 southern California I mean south of the
25 Tehachapis.

1 And when we speak of adverse weather,
2 the way our modelers characterize that as a summer
3 that would be a one-in-ten likelihood of
4 occurrence. So the types of peak summer
5 temperatures that we have once every ten years.

6 We try to plan for that, and that's been
7 a traditional standard in the electricity
8 business, as a planning criterion.

9 In southern California, because of
10 limitations on our transmission grid, and because
11 of reliance on a large number of relatively old
12 power plants, power plants that are under some
13 economic pressure to cease operation, we do see
14 the potential for problems if too many of those
15 plants retire as early as this coming summer.

16 We think there are a variety of
17 responses that the state should initiate, and
18 those are detailed in the report, to try to reduce
19 that prospect.

20 The first and probably most significant
21 would be to alter our tariff system, principally
22 for large customers at first, but ultimately for
23 residential customers that live in air
24 conditioning zones, so that those customers see
25 the true cost of providing electricity in those

1 peak hours.

2 We define peak hours as 50 to 100 hours
3 a year, and that's out of an 8700 year. There are
4 somewhere between 50 and 100 where our demand
5 spikes up in a needle fashion, if you were to draw
6 it on a graph. That's caused principally by air
7 conditioning loads.

8 And sadly to say, a lot of those air
9 conditioners are going in homes or dwellings that
10 aren't occupied during those hours. It's
11 convenient to leave your air conditioner set at
12 the same temperature when you go to work. I know
13 it's nice to come home to a cool house.

14 But at the same time, I think we should
15 all recognize that one of the reasons we behave
16 like that is our utility tariff operates on a
17 hide-the-ball principle. We don't see the actual
18 cost of that hour between 3:00 and 4:00 in the
19 afternoon. It's all averaged into all hours
20 during the month.

21 Sure, your bill goes up in August, but I
22 think, particularly if you're a business, I think
23 that if you're able to see the actual cost of
24 receiving that service on an hour-to-hour basis,
25 or with some of the advanced meters you can go on

1 a minute-by-minute basis, it will affect your
2 usage pattern.

3 Think of the way in which all of us
4 drive around cognizant of the posted prices for
5 gasoline. Price does have an impact on behavior.
6 But in the electricity sector we don't share that
7 information with the customer. We give the
8 customer an average bill at the end of every
9 month, but we won't tell him what his actual usage
10 pattern is on a time-of-day basis, and what the
11 actual costs that flow along with that are.

12 The most effective thing state
13 government can do between now and next summer is
14 to develop the types of time-sensitive tariffs
15 that will clearly send that price signal. Which
16 we think, based on pilot programs that we've
17 operated and on the experience of people in other
18 states and in other countries, will materially
19 affect behavior.

20 MR. GROSSI: I'd need a new meter,
21 wouldn't I?

22 PRESIDING MEMBER GEESMAN: You'll need a
23 new meter. And one of the things that is little
24 known among the public, the taxpayers, during the
25 energy crisis, paid for the installation of some

1 25,000 new meters for all of the largest customers
2 of California. Those customers represent
3 approximately 70 percent of the electricity load.

4 We've not yet put into place the time-
5 of-use tariff necessary to fully utilize those
6 meters. And as you can imagine, at the Public
7 Utilities Commission, making that sort of change
8 is a fairly momentous decision.

9 I think that the thrust of our report is
10 it's time to make that decision. And we need to
11 have done so before the summer of 2005.

12 COMMISSIONER BOYD: I want to make one
13 additional comment. Circling back to our earlier
14 discussion and the question in my comments about
15 the ag industry's now working in partnership with
16 government and what-have-you.

17 And after I'd said that and during the
18 course of this discussion, it suddenly dawned on
19 me that I'm in Fresno. And this is the home of
20 one of the Associations that kind of pioneered
21 this partnering with government, at least as a
22 representative of the ag community. The Nisei
23 Farmers League. And it's now leader Manuel Cunha.

24 We're among almost the first of the
25 agricultural organizations to sit down at the

1 table with government and be willing, with other
2 industrial leaders, to kind of talk about the
3 environmental consequences and air quality issues
4 and so on and so forth.

5 And quite frankly, as we approach the
6 major revision of our report, and have to cover a
7 lot of other issues, I have that organization in
8 mind to talk to again with regard to the subject
9 of energy use. Because energy cost is very
10 significant in the agricultural community,
11 particularly for food processors and food
12 processing.

13 However, one of the big uses of
14 electricity in the state is the movement of water
15 around. And, of course, a lot of that water is
16 moved for and/or by agriculture. And that's
17 another area where we have interest in assuring
18 that we have, you know, we get the most efficient
19 approaches to the movement of water, and efficient
20 types of hardware and machinery. Something that
21 again the Commission has invested in with its
22 research activities to help. And in its financial
23 aid types of programs, as well.

24 So the Valley and its big industry,
25 agriculture, will continue to be large players in

1 working on and working with and being concerned
2 about energy use, I am quite confident.

3 MS. WALDNER: How important is it that
4 the transmission in Tehachapi be upgraded and
5 expanded?

6 PRESIDING MEMBER GEESMAN: The
7 transmission issue in Tehachapi is a critical
8 prerequisite to developing the 4000 megawatts of
9 the wind potential in Tehachapi. And that is
10 probably the largest single aggregation of
11 renewable energy resources likely to be
12 commercially developed over the course of the next
13 decade.

14 So when you see the state promoting
15 aggressive renewable energy goals, for the
16 electricity sector we have been quite forceful, as
17 has the Governor, in requiring our utilities to
18 get 20 percent of their electricity from
19 renewables by the year 2010. Our report suggests,
20 as the Governor has, adding to that a 33 percent
21 goal by 2020.

22 Achieving those goals is going to
23 require a pretty significant contribution from the
24 Tehachapi wind resource. We're only going to be
25 able to accomplish that if we improve the

1 transmission interconnection of the rest of the
2 grid with that region.

3 MS. WALDNER: Where is the study group
4 at right now?

5 PRESIDING MEMBER GEESMAN: We're
6 supposed to have a report, I believe, early in
7 2005. Southern California Edison Company is
8 expecting to file a certificate of public
9 convenience and necessity, which is the permit
10 application, I believe in December for different
11 pieces of the upgrade.

12 And Edison has indicated that it may not
13 be ready yet to make that filing for the entire
14 set of upgrades. But the study group is designed
15 to try and review what the best alternatives would
16 be.

17 And I would expect that process is going
18 to continue on into '05, and probably into 2006,
19 as well.

20 MS. WALDNER: When, then, physically
21 could expansion of transmission (inaudible)
22 actually be expanded? I mean when, in reality,
23 could we see it?

24 PRESIDING MEMBER GEESMAN: It'll come in
25 increments. There is some transmission capacity

1 now. You'll see that incrementally expanded over
2 the next two years. I think the real challenge is
3 what will the pace of that expansion be.

4 There's some argument that actually
5 approaching the area from the north, rather than
6 Edison's proposal to build up from the south,
7 approaching the area from the north by upgrading
8 what's called Path 26, would be a better approach,
9 and confer more benefits than simply
10 commercializing the Tehachapi wind resource.

11 That's being reviewed both by the study
12 group and by the Cal-ISO which is the nonprofit
13 corporation that administers our electricity grid.

14 Other questions or areas of curiosity?

15 Well, then I think it's off to an early
16 lunch. I want to thank you all very much for your
17 participation.

18 We will next convene again, I guess, for
19 our November 3rd full business meeting. Publish a
20 draft, a revised draft October 20th. And we'd
21 invite your written comments by October 13th.

22 Again, I want to thank everybody, and we
23 will be adjourned.

24 (Whereupon, at 11:37 a.m., the hearing
25 was adjourned.)

CERTIFICATE OF REPORTER

I, JAMES RAMOS, an Electronic Reporter,
do hereby certify that I am a disinterested person
herein; that I recorded the foregoing California
Energy Commission Hearing; that it was thereafter
transcribed into typewriting.

I further certify that I am not of
counsel or attorney for any of the parties to said
hearing, nor in any way interested in outcome of
said hearing.

IN WITNESS WHEREOF, I have hereunto set
my hand this 17th day of October, 2004.

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